US Army Corps
of Engineers

Engineer Research and
Development Center

Fact Sheet

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Joint Mapping Tool Kit (JMTK)

Description and Background: The Defense Information Systems Agency (DISA) is overseeing the development of a standard software architecture known as the Defense Information Infrastructure Common Operating Environment (DII COE). The goals of the DII COE are to ensure interoperability at all levels of DOD operations, eliminate duplicate software functions, provide a common human-computer interface (Applications Framework "AFW"), and improve software portability.

The National Imagery and Mapping Agency (NIMA) and DISA are responsible for providing the Joint services with a single implementation of a common set of Mapping, Charting, Geodesy and Imagery (MCG&I) capabilities with in the DII COE. The collective MCG&I services are known as JMTK.

DISA has mandated that JMTK provide the MCG&I functionality for "mission applications" that run in the DII COE environment. This mandate encompasses critical Army command and control systems associated with the Army Battle Command System (ABCS).

Key Capabilities: JMTK is designed as a collection of application programmer interfaces (APIs) grouped into five domains:
Spatial Data Base Module (JMS) – Provides capability to import and manage NIMA geospatial products.
Analysis (JMA) – Provides capability to apply standard terrain analysis algorithms to geospatial data obtained from JMS.
Visual (JMV) – Provides capability to render standard NIMA products in map windows, supports map layers for display of user data.
Utilities (JMU) – Provides capability to perform fundamental geodetic computations.
Imagery – Provides capability to manipulate geocoded imagery.
NIMA chairs the MCG&I Technical Working Group and Requirements Working Group, which convene monthly. NIMA is responsible for the development of JMS, JMA, and select JMU capabilities. DISA is responsible for the development of JMV and for JMTK integration.

Current Status: Acquisition of a commercial FMTK is underway in 2001.NIMA leads the C/JMTK (Commercial JMTK) program.Version 4.4.0.0 is currently available.

DISA provides the DII COE releases to each of the services, which are responsible for distribution within their respective communities. The Army Army Software Engineering Center, Information Engineering Directorate, provides distribution to the Army. The ARC maintains a web site for software distribution (IP address: 160.147.66.76).

Two web sites are also available which provide JMTK requirements and engineering documentation, meeting information, and help resources
NIMA-sponsored site http://www.jmtk.org
DII COE home page http://diicoe.disa.mil/coe/

Point of Contact:

- Point of Contact: Requirements Branch, rbinfo@tec.army.mil.

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